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TITLE: IDENTIFYING CLOCK SYNCHRONIZING METHOD IN DATA
REPRODUCING DEVICE AND DATA REPRODUCING DEVICE

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INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To accelerate and correct initial pull-in of an identifying clock phase by sharing a low frequency component containing a DC component generated from a regenerative signal after waveform equalized with the signal of a high frequency component generated from the regenerative signal before waveform equalized.

SOLUTION: A phase error is detected from the regenerative signal after waveform equalized by a digital FIR filter 13 by a digital clock phase error detection circuit 16, and a first phase error signal is outputted. The phase error is detected from the regenerative signal before waveform equalized outputted from an LPF 11 by an analog clock phase error detection circuit 21, and a second phase error signal is outputted. The signal cutting a first phase error signal frequency component by a high-band cut-off filter 18 is synthesized with the signal cutting a second phase error signal low frequency component by a low-band cut-off filter 22 by an adder 25. By imparting the synthesized signal to a VCO 29 as a control signal through a loop filter 26, the initial pull-in operation of the identifying clock phase is performed.

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